ame of Work:- Improvements to roads and drains near Hebbal shanimahatma temple in ward
.0, Byatarayanapura Estimate Cost:-
.00 Lakhs

N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.142.Item No.19.1)								
	Basic Rate:	cum	**82.00**						
	Area Weightage @ 6%		4.92						
	Total		**86.92**						
	Yogeshwaranagara								
	Desilting of drains								
	12th cross		2	30.00	0.45	0.45	12.15		
	11th cross		2	30.00	0.45	0.45	12.15		
	10th cross		2	30.00	0.45	0.45	12.15		
	9th cross		2	30.00	0.45	0.45	12.15		
	8th cross		2	30.00	0.45	0.45	12.15		
	7th cross		2	30.00	0.45	0.45	12.15		
							72.90	86.92	**6337.00**
2	KSRRB 300-1. Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surafce levelled and neatly dressed, disposed earth to be levelled including breaking clodsand neatly dressed as per specifications.. Pg No.05.Item No.2.1)								
	Basic Rate:	cum	**157.00**						
	Area Weightage @ 6%		9.42						
	Total		**166.42**						
	Hebbal near shanimahatma temple								
	CC ROAD WORK								
	1st main road		1	170.00	5.50	0.20	187.00		
	1st cross		1	65.00	2.00	0.20	26.00		
	4th cross		1	70.00	2.00	0.20	28.00		
	Cross road		1	280.00	3.00	0.20	168.00		
	L shape BS Slab drain		1	100.00	0.30	0.15	4.50		
	Yogeshwaranagara								
	12th cross		1	30.00	3.00	0.20	18.00		
	11th cross		1	30.00	3.00	0.20	18.00		
	10th cross		1	30.00	3.00	0.20	18.00		
	9th cross		1	30.00	3.00	0.20	18.00		
	8th cross		1	30.00	3.00	0.20	18.00		
	7th cross		1	30.00	3.00	0.20	18.00		
	Veeranna palya								
	2nd cross		1	50.00	0.60	0.60	18.00		
	3rd cross		1	50.00	0.60	0.60	18.00		

	Main LHS Side-Culverts								
			4	6.00	1.80	1.00	43.20		
							600.70	166.42	**99969.00**
3	Providing granite slabs of selected quality roughly dressed and fixed in cementer mortar (1:6) including fixing curing etc., complete. Pg No.25, Item No.5.31.1 (7.5 cms thick)								
	Basic rate	Sqm	628.00						
	Area Weightage @ 6%		37.68						
	Total		665.68						
	L shape BS Slab drain	1x1	1.00	100.00	0.60		60.00		
	Veeranna palya								
	2nd cross		1.00	50.00	1.35		67.50		
	3rd cross		1.00	50.00	1.35		67.50		
					Total:-		**195.00**	665.68	**129808.00**
4	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)**								
	Basic Rate:	cum	4867.00						
	Area Weightage @ 6%		292.02						
	Total		5159.02						
	Hebbal near shanimahatma temple								
	1st main road		1	170.0	5.5	0.15	140.25		
	1st cross		1	65.0	2.0	0.15	19.50		
	4th cross		1	70.0	2.0	0.15	21.00		
	Cross road		1	280.0	3.0	0.15	126.00		
	Yogeshwaranagara								
	12th cross		1	30	3	0.15	13.50		
	11th cross		1	30	3	0.15	13.50		
	10th cross		1	30	3	0.15	13.50		
	9th cross		1	30	3	0.15	13.50		
	8th cross		1	30	3	0.15	13.50		
	7th cross		1	30	3	0.15	13.50		
	Veerannapalya LHS Side-								
	CULVERTS bottom		4	6	1.8	0.15	6.48		
							394.23	5159.02	**2033841.00**
5	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundation plinth and cills including cost of all materials, labour HOM of machinery curing complete as per specifications.(Item No.4.6, Page No.12)								
	Basic Rate:	cum	5441.00						
	Area Weightage @ 6%		326.46						
	Total		5767.46						

	Veerannapalya LHS Side								
	Culvert bottom		4	6	0.6	0.10	1.44		
	Ramps	4x2	8	6	0.3	0.10	1.44		
							2.88	5767.46	**16611.00**
6	KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-23. Item No. 5.6)								
	Basic rate	cum	4187.00						
	Add A.W. 6%		251.22						
	Total		4438.22						
	Culvert Side wall	4x2	8.00	6.00	0.45	0.90	19.44		
					Total:-		**19.44**	4438.22	**86279.00**
7	KSRB 5.3-1:Providing ruled pointing of course stone msonry with cement mortar 1:3 20 mm deep, after raking joints to depth of 20 mm nicley lining, including cost of materials, labour, curing etc., complete as per specifications and directions of the engineer-in-charge. (P-112, Item No. 15.8)								
	Basic rate	Sqm	35.00						
	Add A.W. 6%		2.10						
	Total		37.10						
	Culvert Side wall	4x2	8.00	6.00	0.90		43.20		
	L shape BS Slab drain		1.00	100.00	0.60		60.00		
	Veeranna palya								
	2nd cross		1.00	50.00	1.35		67.50		
	3rd cross		1.00	50.00	1.35		67.50		
					Total:-		**238.20**	37.10	**8838.00**
8	Cement concrete pavement. Construction of un-reinfirced plain cement concrete pavement, thickness as per deisgn, over a prepraed sub base with OPC cement or any other type as per clause 1051..2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates ,with superplastiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates inlcuding levelling the form work as per drawing) and spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, sparation menebrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specfication.M20 (AT 300 Kg per cum coarse aggregats @ 0.69cum and fine aggregate @0.43cum) (Pg No.177, It No.22.6.2)								
	Basic Rate:	cum	5197.00						
	Area Weightage @ 6%		311.82						
	Total		5508.82						
	1st main road		1.00	170.00	5.50	0.10	93.50		
	1st cross		1.00	65.00	2.00	0.10	13.00		
	4th cross		1.00	70.00	2.00	0.10	14.00		

	Cross road		1.00	280.00	3.00	0.10	84.00		
	Yogeshwaranagara								
	12th cross		1.00	30.00	3.00	0.10	9.00		
	11th cross		1.00	30.00	3.00	0.10	9.00		
	10th cross		1.00	30.00	3.00	0.10	9.00		
	9th cross		1.00	30.00	3.00	0.10	9.00		
	8th cross		1.00	30.00	3.00	0.10	9.00		
	7th cross		1.00	30.00	3.00	0.10	9.00		
							258.50	5508.82	**1424030.00**
9	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift. **(P177, It No. 22.7)**								
	Basic rate	Sqm	**90.00**						
	Area Weightage @ 6%		5.40						
	Total		**95.40**						
	1st main road		1.00	170.00	5.50		935.00		
	1st cross		1.00	65.00	2.00		130.00		
	4th cross		1.00	70.00	2.00		140.00		
	Cross road		1.00	280.00	3.00		840.00		
	Yogeshwaranagara								
	12th cross		1.00	30.00	3.00		90.00		
	11th cross		1.00	30.00	3.00		90.00		
	10th cross		1.00	30.00	3.00		90.00		
	9th cross		1.00	30.00	3.00		90.00		
	8th cross		1.00	30.00	3.00		90.00		
	7th cross		1.00	30.00	3.00		90.00		
					Total:-		**2585.00**	95.40	**246609.00**
10	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	DETA RATE	**Sqm**							
	Culvert covering		40	1.80	0.60		43.20		
	Drain covering		248	1.40	0.60		208.32		
							251.52	5111.00	**1285519.00**
11	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Basic Rate	cum	**68.00**				600.70	106.00	**63675.00**
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10K		**32.00**						
	Total		**100.00**						

	Add Area Weightage6%		6.00					
			106.00					
2					Sub Total			5401516.00
3				Add 10% Tender premium charges				540151.60
4				Add 1% Third party inspection charges				54015.16
5				Miscellenous charges				4317.24
6					Total			6000000.00

1)This is certified that the work spot comes under BBMP limits only.

2) The work spot is inspected by me

3) The items Provided in the Estimate are quite Essential

4)The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

ADMINISTRATIVE APPROVAL

Accorded For Rs. Sixty lakhs only

Head of A/C. P-3111

Div. Rct. No. 111 Date. 19/12/17

AE

EE(BTP)

Technical Sanction
Accorded For RS60 lakhs only
Head of A/C. P-3111
CER NO TS/1439/1776 Dt:23.12.17

TA CE (YNK)

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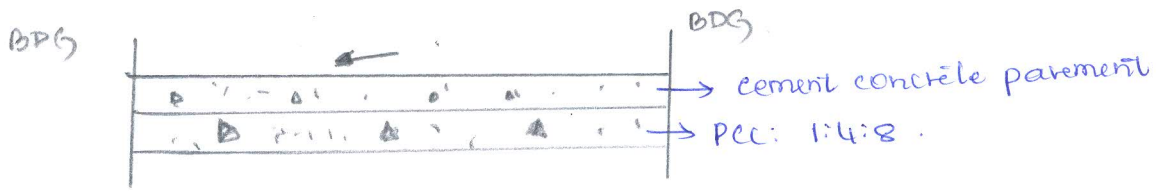
A.L.N.D
AE(W-II)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Improvements to roads and drains near Hebbal Shanimahatma temple in Ward no. 07., byatarayanapura:



CROSS-SECTION

AE(W7)

Assistant Executive Engineer
Kodigehaili Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

me f Work:- Improvements to roads and drains Amruthalli gramatana pending works) and rrounding areas in ward No.07, Byatarayanapura

imate Cost:-50.00 Lakhs

N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.142.Item No.19.1)								
	Basic Rate:	cum	**82.00**						
	Area Weightage @ 6%		4.92						
	Total		**86.92**						
	CC ROAD								
	Near Maramma temple (Near Kanasu House)		1	18.00	3.00	0.20	10.80		
	Near Lokesh house		1	45.00	2.00	0.20	18.00		
	Near House no.38		1	30.00	3.00	0.20	18.00		
			1	30.00	4.00	0.20	24.00		
	Near Kari kallappa house		1	90.00	3.00	0.20	54.00		
			1	20.00	4.00	0.20	16.00		
	Near kateramma temple		1	30.00	2.00	0.20	12.00		
	Anganwadi road		1	50.00	4.00	0.20	40.00		
	cross road(opp to sai ram provisions stores)		1	15.00	2.00	0.20	6.00		
	Near Laxmi narayana house		1	15.00	3.00	0.20	9.00		
	Near Chikka daddappa house		1	100.00	5.00	0.20	100.00		
			1	25.00	3.00	0.20	15.00		
			1	30.00	2.00	0.20	12.00		
	Near Amrutha School		1	50.00	4.00	0.20	40.00		
	Hoodi layout		5	15.00	4.00	0.20	60.00		
	Opp to PHC		1	15.00	3.00	0.20	9.00		
	Road next to Vinayaka Bar		1	50.00	4.00	0.20	40.00		
	ASPHALT ROADS								
	Amruthalli circle to eshwara temple		1	210.00	4.50	0.30	283.50		
	Kare kallappa road(Gangamma temple road)		1	60.00	4.00	0.30	72.00		
	Drain from Amruthall main road to Aswath Katte		1	150.00	1.20	1.20	216.00		
							1055.30	86.92	91727.00
2	Providing granite slabs of selected quality roughly dressed and fixed in cementer mortar (1:6) including fixing curing etc., complete. Pg No.25, Item No.5.31.1 (7.5 cms thick)								

	Basic rate	Sqm	628.00						
	Area Weightage @ 6%		37.68						
	Total		665.68						
	L shape BS Slab drain	1x2	2.00	50.00	0.45		45.00		
					Total:-		**45.00**	665.68	29956.00
3	KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23 / Item No. 5.12 / PWD SR 2016-17								
	Basic Rate:	cum	4187.00						
	Area Weightage @ 6%		251.22						
	Total		4438.22						
	Drain from Amruthalli main road to Aswath Katte		2.00	75.00	0.60	0.45	40.50		
							40.50		
	A. With Available stones						**12.15**	4438.22	53925.00
	70% of qty vide item No. 7								
	Basic Rate		5249.00						
	Deduct cost of available stones 100*11/each		1100.00						
	Deduct 10% overhead charges (1000*10%)		110.00						
	Net rate		4039.00						
	Area Weightage @ 6%		242.34						
	Total		4281.34				**28.35**	4281.34	121376.00
4	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)**								
	Basic Rate:	cum	4867.00						
	Area Weightage @ 6%		292.02						
	Total		5159.02						
	CC ROAD								
	Near Maramma temple (Near Kanasu House)		1	18.0	3.0	0.10	5.40		
	Near Lokesh house		1	45.0	2.0	0.10	9.00		
	Near House no.38		1	30.0	3.0	0.10	9.00		
			1	30.0	4.0	0.10	12.00		
	Near Kari kallappa house		1	90.0	3.0	0.10	27.00		
			1	20.0	4.0	0.10	8.00		
	Near kateramma temple		1	30.0	2.0	0.10	6.00		

Anganwadi road		1	50.0	4.0	0.10	20.00		
cross road(opp to sai ram provisions stores)		1	15.0	2.0	0.10	3.00		
Near Laxmi narayana house		1	15.0	3.0	0.10	4.50		
Near Chikka daddappa house		1	100.0	5.0	0.10	50.00		
		1	25.0	3.0	0.10	7.50		
		1	30.0	2.0	0.10	6.00		
Near Amrutha School		1	50.0	4.0	0.10	20.00		
Hoodi layout		5	15.0	4.0	0.10	30.00		
Opp to PHC		1	15.0	3.0	0.10	4.50		
Road next to Vinayaka Bar		1	50.0	4.0	0.10	20.00		
						241.90	5159.02	1247967.00

Cement concrete pavement. Construction of un-reinfirced plain cement concrete pavement, thickness as per deisgn, over a prepraed sub base with OPC cement or any other type as per clause 1051..2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates ,with superplastiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates inlcuding levelling the form work as per drawing) and spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, sparation menebrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specfication.M20 (AT 300 Kg per cum coarse aggregats @ 0.69cum and fine aggregate @0.43cum) (Pg No.177, It No.22.6.2)

Basic Rate:	cum	5197.00						
Area Weightage @ 6%		311.82						
Total		5508.82						
CC ROAD								
Near Maramma temple (Near Kanasu House)		1	18	3	0.10	5.40		
Near Lokesh house		1	45	2	0.10	9.00		
Near House no.38		1	30	3	0.10	9.00		
		1	30	4	0.10	12.00		
Near Kari kallappa house		1	90	3	0.10	27.00		
		1	20	4	0.10	8.00		
Near kateramma temple		1	30	2	0.10	6.00		
Anganwadi road		1	50	4	0.10	20.00		
cross road(opp to sai ram provisions stores)		1	15	2	0.10	3.00		
Near Laxmi narayana house		1	15	3	0.10	4.50		

	Near Chikka daddappa house		1	100	5	0.10	50.00		
			1	25	3	0.10	7.50		
			1	30	2	0.10	6.00		
	Near Amrutha School		1	50	4	0.10	20.00		
	Hoodi layout		5	15	4	0.10	30.00		
	Opp to PHC		1	15	3	0.10	4.50		
	Road next to vinayaka		1	50	4	0.10	20.00		
							241.90	5508.82	1332584.00
6	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift. **(P177, It No. 22.7)**								
	Basic rate	Sqm	**90.00**						
	Area Weightage @ 6%		5.40						
	Total		**95.40**						
	CC ROAD								
	Near Maramma temple (Near Kanasu House)		1.00	18.00	3.00		54.00		
	Near Lokesh house		1.00	45.00	2.00		90.00		
	Near House no.38		1.00	30.00	3.00		90.00		
			1.00	30.00	4.00		120.00		
	Near Kari kallappa house		1.00	90.00	3.00		270.00		
			1.00	20.00	4.00		80.00		
	Near kateramma temple		1.00	30.00	2.00		60.00		
	Anganwadi road		1.00	50.00	4.00		200.00		
	cross road(opp to sai ram provisions stores)		1.00	15.00	2.00		30.00		
	Near Laxmi narayana house		1.00	15.00	3.00		45.00		
	Near Chikka daddappa house		1.00	100.00	5.00		500.00		
			1.00	25.00	3.00		75.00		
			1.00	30.00	2.00		60.00		
	Near Amrutha School		1.00	50.00	4.00		200.00		
	Hoodi layout		5.00	15.00	4.00		300.00		
	Opp to PHC		1.00	15.00	3.00		45.00		
	Road next to vinayaka bar		1.00	50.00	4.00		200.00		
					Total:-		**0.00**	95.40	0.00
7	KSRB4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.69 cum and fine aggragtes @ 0.459cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	Basic rate	Sqm	5441.00						
	Area Weightage @ 6%		326.46						

Total		5767.46						
Drain from Amruthall main road to Aswath Katte- drain coping	1x2	2.00	150.00	0.45	0.10	13.50		
				Total:-		**13.50**	5767.46	77861.00

Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)

DETA RATE	**Sqm**							
Drain from Amruthalli main road to Aswath Katte		**150.00**	**1.4**	0.60		126.00		
						126.00	5111.00	643986.00

KSSRB M 400-17: Providing laying, spreading and compacting graded fine aggregate to wet mix macadam specificationns including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surfce and compating with vibratory roller to achieve the desired density complete as per specifications. MORTH specifications no. 406(P-157., It No: 20.18)

Basic rate	cum	1668.00						
Add A.W. 6%		100.08						
Total		1768.08						
		1.00	210.00	4.50	0.20	189.00		
		1.00	60.00	4.00	0.20	48.00		
				Total:-		**237.00**	1768.08	419035.00

0 KSRRB 500-07: Providing and applying primer coat with SS bitumen emulsion on prepared surface o fgranular sub base such as WMM including cleaning of road surface and spraying primer at the rate of 0.6kg/m using mechanical means complete as per specifications., Pg No. 161. Item No. 21.6)

Basic rate	Sqm	26.00						
Add A.W. 6%		1.56						
Total		27.56						
		1.00	210.00	4.50		945.00		
		1.00	60.00	4.00		240.00		
				Total:-		**1185.00**	27.56	32659.00

1 Providing and laying bituminous concrete40MM thick with hotmix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filleeer, transporting of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required gradde, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to acheive the desired compaction as per MORTH specifications clause No.509 complete in all respects complete as per specifications. using 40/60 TPH capacity H.M.P with mechanical paver Gr-11(30mm to 45mm) with 5.4% of modified binder consisting of 4.97% VG-10 bitumen (80/100) grade and 0.43% of plastomeric thermoplastics(Waste plastic)(Page No.172, It No.21.78.6)

Basic rate	Sqm	6746.00						

	Add A.W. 6%		404.76						
	Total		7150.76						
			1.00	210.00	4.50	0.04	37.80		
			1.00	60.00	4.00	0.04	9.60		
					Total:-		**47.40**	7150.76	338947.00
12	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Basic Rate	cum	**68.00**				1055.30	106.00	111862.00
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10K		**32.00**						
	Total		**100.00**						
	Add Area Weightage6%		**6.00**						
			106.00						
13						**Sub Total**			**4501885.00**
14				**Add 10% Tender premium charges**					450188.50
15				**Add 1% Third party inspection charges**					45018.85
16				**Miscellenous charges**					2907.65
17						**Total**			**5000000.00**

1)This is certified that the work spot comes under BBMP limits only.

2) The work spot is inspected by me

3) The items Provided in the Estimate are quite Essential

4)The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

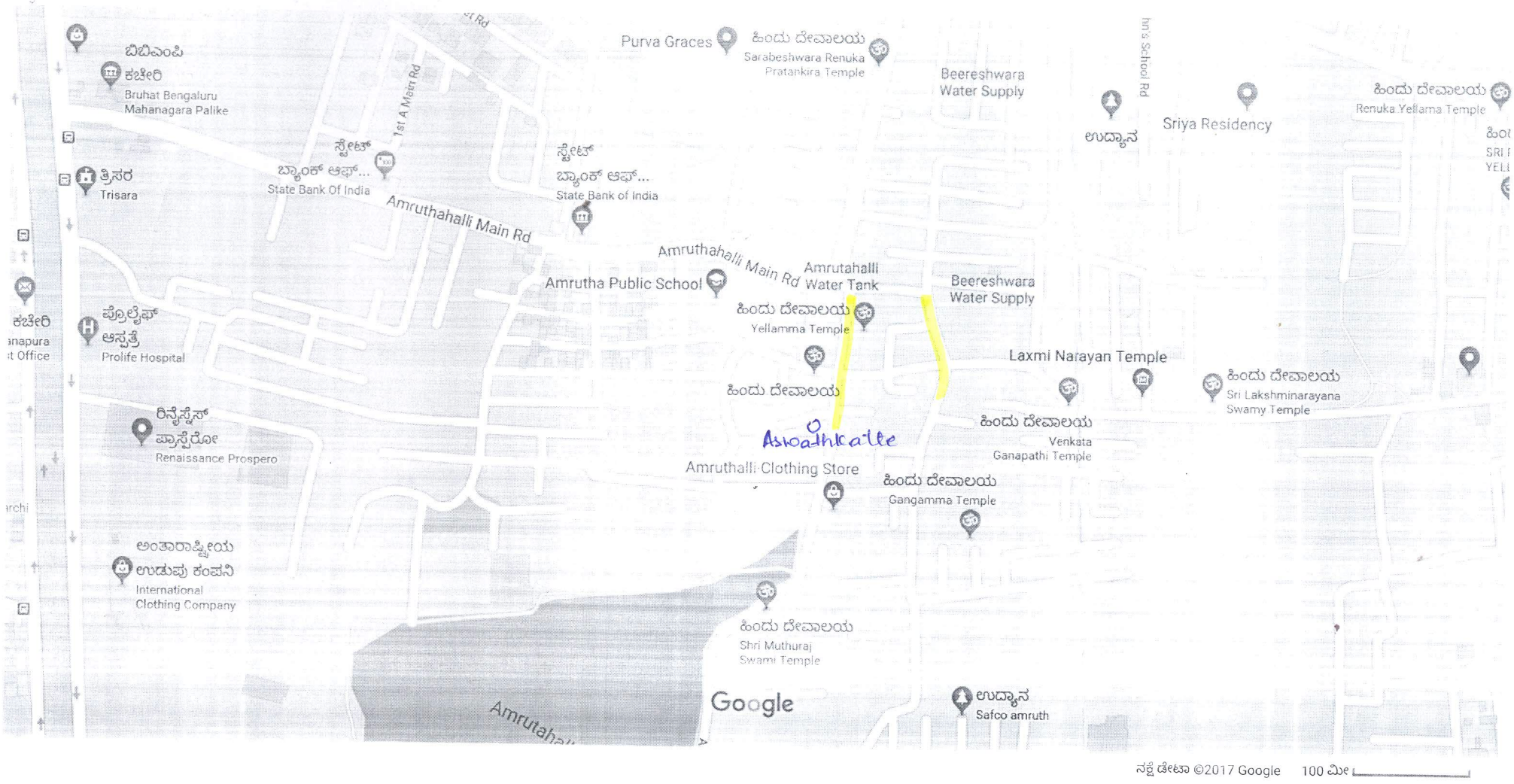
ADMINISTRATIVE APPROVAL
Accorded For Rs. Fifty lakhs only
Head of A/c P-3111
Div. Ref. No. 112 Date 19/12/17

AE 19/12 EE(BTP) 19/12

Technical Sanction
Accorded For 50.00 Lakhs only
Head of A/C P-3111
CER NO : TS/480/12-18 Dt: 23.12.17

TA CE (YNK)

Name of work:- Improvements to roads and drains Amruthahalli gramatane (pending works) and surrounding areas in ward no.07.



AE(W)

Name of Work:- Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in ward No.07, Byatarayanapura

Estimate Cost:- 40.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)								
	Basic Rate:	cum	**76.00**						
	Area Weightage @ 6%		4.56						
	Total		**80.56**						
	Desilting of drains								
	Saneevininagara		2	35.00	0.60	0.60	25.20		
	Road near 2nd cross		2	31.00	0.60	0.60	22.32		
	cross road		2	15.00	0.60	0.60	10.80		
	Road near 1st cross		2	20.00	0.60	0.60	14.40		
	cross road		2	20.00	0.60	0.60	14.40		
	cross road		2	35.00	0.60	0.60	25.20		
	cross road		2	15.00	0.60	0.60	10.80		
	cross road		2	25.00	0.60	0.60	18.00		
	cross road		2	10.00	0.60	0.60	7.20		
	cross road		2	15.00	0.60	0.60	10.80		
	cross road		2	200.00	0.60	0.60	144.00		
	Byatarayanapura								
	4th cross		2	145.00	0.60	0.60	104.40		
	5th cross		2	150.00	0.60	0.60	108.00		
	3rd cross		2	54.00	0.60	0.60	38.88		
							554.40		
				20% missing slabs			**55.44**		
				Total			**498.96**	80.56	40197.00
2	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.142.Item No.19.1)								
	Basic Rate:	cum	**82.00**						
	Area Weightage @ 6%		4.92						
	Total		**86.92**						
	Desilting of drains								
	Saneevininagara		2	35.00	0.60	0.60	25.20		
	Road near 2nd cross		2	31.00	0.60	0.60	22.32		
	cross road		2	15.00	0.60	0.60	10.80		
	Road near 1st cross		2	20.00	0.60	0.60	14.40		
	cross road		2	20.00	0.60	0.60	14.40		
	cross road		2	35.00	0.60	0.60	25.20		
	cross road		2	15.00	0.60	0.60	10.80		
	cross road		2	25.00	0.60	0.60	18.00		
	cross road		2	10.00	0.60	0.60	7.20		
	cross road		2	15.00	0.60	0.60	10.80		

	cross road		2	200.00	0.60	0.60	144.00		
	Byatarayanapura								
	4th cross		2	145	0.60	0.60	104.40		
	5th cross		2	150	0.60	0.60	108.00		
	3rd cross		2	54	0.60	0.60	38.88		
	CC ROAD								
	Saneevininagara		1	35.00	2.00	0.30	21.00		
	Road near 2nd cross		1	31.00	1.50	0.30	13.95		
	cross road		1	15.00	1.50	0.30	6.75		
	Road near 1st cross		1	20.00	1.20	0.30	7.20		
	cross road		1	20.00	1.50	0.30	9.00		
	cross road		1	35.00	1.50	0.30	15.75		
	cross road		1	15.00	1.50	0.30	6.75		
	cross road		1	25.00	1.50	0.30	11.25		
	cross road		1	10.00	1.50	0.30	4.50		
	cross road		1	15.00	1.50	0.30	6.75		
	cross road		1	200.00	2.00	0.30	120.00		
	Byatarayanapura								
	4th cross		1	145.00	4.50	0.30	195.75		
	5th cross		1	150.00	4.50	0.30	202.50		
	3rd cross		1	54.00	4.50	0.30	72.90		
							1248.45	86.92	108516.00
3	Providing granite slabs of selected quality roughly dressed and fixed in cementer mortar (1:6) including fixing curing etc., complete. Pg No.25, Item No.5.31.1 (7.5 cms thick)								
	Basic rate	Sqm	628.00						
	Area Weightage @ 6%		37.68						
	Total		665.68						
							55.44		
					Total:-		**55.44**	665.68	36906.00
4	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)**								
	Basic Rate:	cum	4867.00						
	Area Weightage @ 6%		292.02						
	Total		5159.02						
	CC ROAD								
	Saneevininagara		1	35	2	0.15	10.50		
	Road near 2nd cross		1	31	2	0.15	6.98		
	cross road		1	15	2	0.15	3.38		
	Road near 1st cross		1	20	1	0.15	3.60		
	cross road		1	20	2	0.15	4.50		
	cross road		1	35	2	0.15	7.88		
	cross road		1	15	2	0.15	3.38		
	cross road		1	25	2	0.15	5.63		
	cross road		1	10	2	0.15	2.25		
	cross road		1	15	2	0.15	3.38		

	cross road		1	200	2	0.15	60.00		
	Byatarayanapura								
	4th cross		1	145.0	4.5	0.15	97.88		
	5th cross		1	150.0	4.5	0.15	101.25		
	3rd cross		1	54.0	4.5	0.15	36.45		
							347.03	5159.02	1790309.00
5	Cement concrete pavement. Construction of un-reinfirced plain cement concrete pavement, thickness as per deisgn, over a prepraed sub base with OPC cement or any other type as per clause 1051..2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates ,with superplastiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates inlcuding levelling the form work as per drawing) and spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, sparation menebrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specfication.M20 (AT 300 Kg per cum coarse aggregats @ 0.69cum and fine aggregate @0.43cum) (Pg No.177, It No.22.6.2)									
	Basic Rate:	cum	5197.00						
	Area Weightage @ 6%		311.82						
	Total		5508.82						
	CC ROAD								
	Saneevininagara		1	35.0	2.0	0.10	7.00		
	Road near 2nd cross		1	31.0	1.5	0.10	4.65		
	cross road		1	15.0	1.5	0.10	2.25		
	Road near 1st cross		1	20.0	1.2	0.10	2.40		
	cross road		1	20.0	1.5	0.10	3.00		
	cross road		1	35.0	1.5	0.10	5.25		
	cross road		1	15.0	1.5	0.10	2.25		
	cross road		1	25.0	1.5	0.10	3.75		
	cross road		1	10.0	1.5	0.10	1.50		
	cross road		1	15.0	1.5	0.10	2.25		
	cross road		1	200.0	2.0	0.10	40.00		
	Byatarayanapura								
	4th cross		1	145.0	4.5	0.10	65.25		
	5th cross		1	150.0	4.5	0.10	67.50		
	3rd cross		1	54.0	4.5	0.10	24.30		
							231.35	5508.82	1274466.00
6	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift. **(P177, It No. 22.7)**								
	Basic rate	Sqm	**90.00**						
	Area Weightage @ 6%		5.40						
	Total		**95.40**						

	CC ROAD								
	Saneevininagara		1.00	35.00	2.00		70.00		
	Road near 2nd cross		1.00	31.00	1.50		46.50		
	cross road		1.00	15.00	1.50		22.50		
	Road near 1st cross		1.00	20.00	1.20		24.00		
	cross road		1.00	20.00	1.50		30.00		
	cross road		1.00	35.00	1.50		52.50		
	cross road		1.00	15.00	1.50		22.50		
	cross road		1.00	25.00	1.50		37.50		
	cross road		1.00	10.00	1.50		15.00		
	cross road		1.00	15.00	1.50		22.50		
	cross road		1.00	200.00	2.00		400.00		
	Byatarayanapura								
	4th cross		1.00	145.00	4.50		652.50		
	5th cross		1.00	150.00	4.50		675.00		
	3rd cross		1.00	54.00	4.50		243.00		
							2313.50	95.40	220708.00
11	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Basic Rate	cum	**68.00**				1248.45	106.00	132336.00
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10K		**32.00**						
	Total		**100.00**						
	Add Area Weightage6%		**6.00**						
			106.00						
12						**Sub Total**			**3603438.00**
13						**Add 10% Tender premium charges**			360343.80
14						**Add 1% Third party inspection charges**			36034.38
15						**Miscellenous charges**			183.82
16						**Total**			4000000.00

ADMINISTRATIVE APPROVAL
Accorded For Rs. Forty lakhs only
Head of A/c P-3111
Div. Ref. No. 113/17-18 Date 19/12/17
AE
EE(BTP) 19/12

Technical Sanction
Accorded For Rs. 40 lakhs only
Head of A/C P-3111
CER NO : TS/481/17 Dt: 27.12.17
TA CE (YNK)

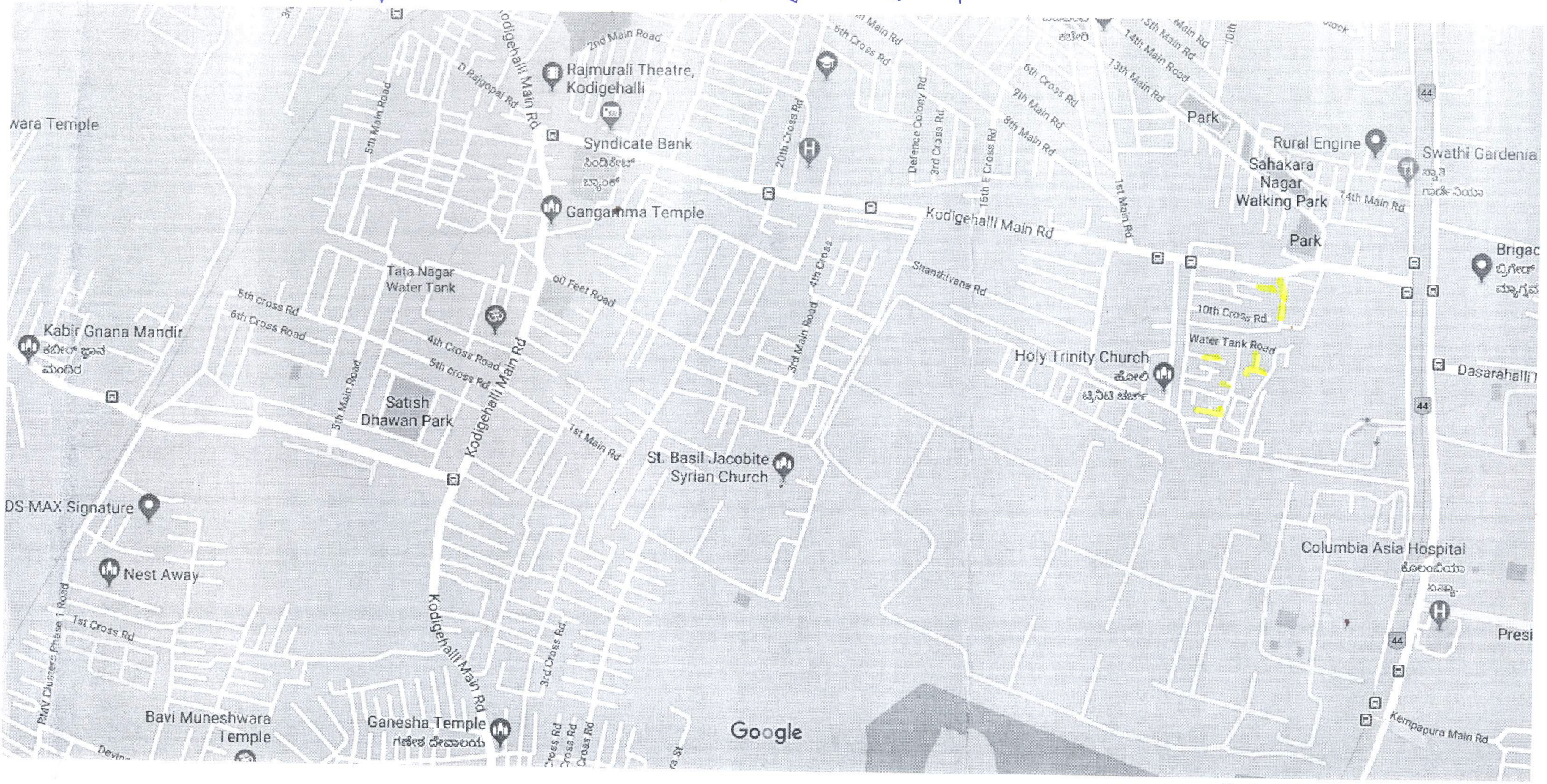
1)This is certified that the work spot comes under BBMP limits only.
2) The work spot is inspected by me
3) The items Provided in the Estimate are quite Essential
4)The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.
19/12

Name of work: Improvements to roads and drains sargeeninagara, byatarayanapura and kempapura in ward no.07, byatarayanapura.



Asst Exe. Engg
AE(Civil).

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Name of Work:- Improvements to drains Hoysala Apartment towards Byatarayanapura in ward No.07, Byatarayanapura

Estimated Cost:- 45.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.141.Item No.19.1)								
	Basic Rate:	cum	**157.00**						
	Area Weightage @ 6%		9.42						
	Total		**166.42**						
	RCC DRAIN								
	From RadhaKrishna choultry to SWD		1	178.00	1.20	1.20	256.32		
					TOTAL		**256.32**	166.42	42657.00
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)**								
	Basic Rate:	cum	4867.00						
	Area Weightage @ 6%		292.02						
	Total		5159.02						
	RCC DRAIN-BOTTOM		1.00	178.00	1.20	0.15	32.04		
					TOTAL		**32.04**	5159.02	165296.00
3	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 13, Item NO. 4.11)								
	Basic Rate:	cum	6011.00						
	Area Weightage @ 6%		360.66						
	Total		6371.66						
	Bottom								
			1.00	178.00	1.20	0.15	32.04		
	Side Wall								
		2x2	2.00	178.00	0.15	0.90	48.06		
							80.10	6371.66	510370.00

4	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.17, Item No.17)								
	Basic Rate:	Tonne	60607.00						
	Area Weightage @ 6%		3636.42						
	Total		64243.42						
	Reinforcement for side wall						80.10		
			At 60 Kg % per cum				**48.06**	64243.42	3087539.00
5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	Basic Rate:	Sqm	366.00						
	Area Weightage @ 6%		21.96						
	Total		387.96						
	SIDE WALL								
	2nd A cross	2x4	4	178.00		0.90	640.80		
							640.80	387.96	248605.00
7	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Basic Rate Rs. 2.50 Tonne Km.	cum	**68.00**				256.32	106.00	27170.00
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10K		**32.00**						
	Total		**100.00**						
	Add Area Weightage6%		**6.00**						
			106.00						
8							**Sub Total**		4081637.00
9							**Add 10% tender premium**		408163.70
10							**Add 1% Third party inspection charges**		4081.64
11							**Miscelleneous charges**		6117.66
12							**Total**		4500000.00

ADMINISTRATIVE APPROVAL
Accorded For Rs. Forty five lakhs only
Head of A/c P-3111
Div. Ref. No. 114 Date 19/12/17
AE
EE(BTP) 19/12

Technical Sanction
Accorded For 45.00 lakhs only
Head of A/C P-3111
CER NO 45/US/2016 Dt: 27.12.17
TA
CE (YNK)

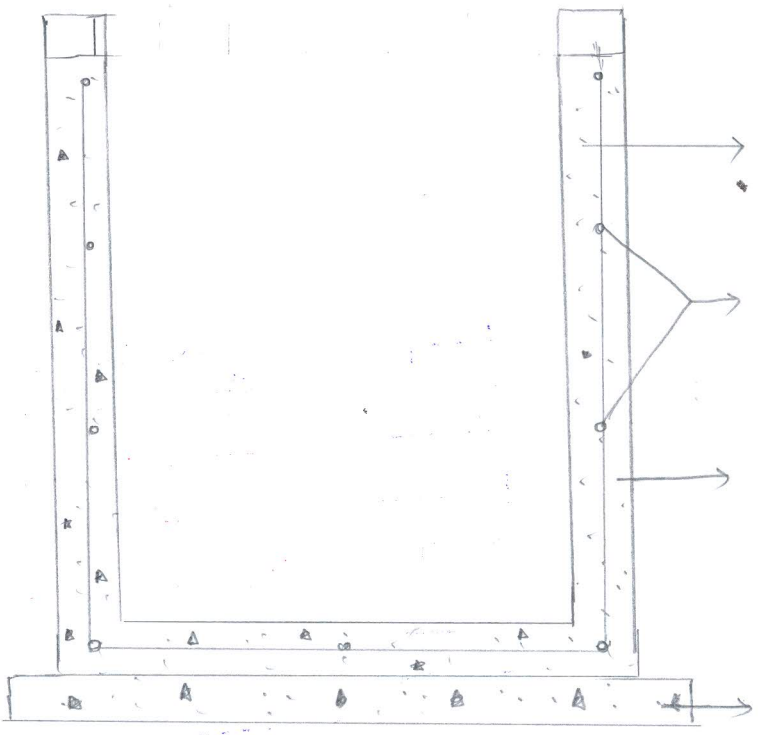
1)This is certified that the work spot comes under BBMP limits only.
2) The work spot is inspected by me
3) The items Provided in the Estimate are quite Essential
4)The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.

Applied N.D
AE(Aut)

Executive Engineer 19/12
Byatarayanapura Division
BBMP, Bangalore-92

19/12

Name of work:- Improvements to drain from Hoysala apartment towards byatarayanapura - village in ward no.07



CROSS-SECTION

A/Eng. N.D
AE(WZ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Pal
Bangalore - 560 092